



# Penta Laboratories, Inc.

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## 6C33C-B

### Power Triode

The 6C33C-B is a power triode designed for use as a series voltage regulator. The 6C33C-B has very high perveance and very high transconductance. It has high current capabilities, making it suitable for Output Transformerless audio power amplifiers.

### General Data

#### Heater Characteristics

Heater voltage.....6.3 or 12.6 ac or dc  
Heater current.....6.4 or 3.3 amps

#### Direct Interelectrode Capacitances

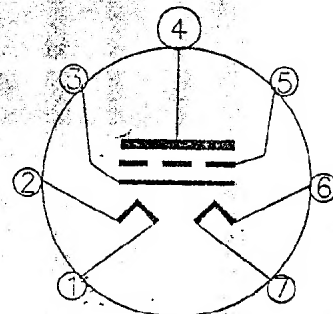
Input.....30.0 pf  
Output.....10.5 pf  
Transfer.....31.0 pf

### Mechanical Data

Mounting position.....Vertical  
Overall length.....5.25" (max)  
Seated height.....4.75" (max)  
Diameter.....2.5" (avg)  
Base.....Septar

### Pin Arrangement

Pin 1...Heater  
Pin 2...Heater  
Pin 3...Cathode  
Pin 4...Anode  
Pin 5...Grid 1  
Pin 6...Heater  
Pin 7...Heater



### Absolute Maximum Ratings

Anode voltage.....	400
Anode dissipation.....	60 watts
Cathode current.....	600 milliamps
Heater to cathode.....	+300 volts
Maximum grid 1 resistance.....	200,000 ohms

### Typical Characteristics

Anode voltage.....	120
Cathode resistor.....	35 ohms
Anode current.....	550 milliamps
Transconductance(Gm).....	40000 micromhos
Anode resistance.....	80 ohms

### Typical Operation

#### Audio Frequency Power Amplifier

##### Push-Pull Class A Fixed Bias

##### Values are for Two Tubes

Anode voltage.....	200
Grid 1 voltage.....	-65
Zero signal anode current.....	480 milliamps
Maximum signal anode current.....	480 milliamps
Peak grid 1 voltage.....	65
Zero signal anode dissipation.....	96 watts
Maximum signal anode dissipation.....	40 watts
Effective load.....	800 ohms
Power output.....	55 watts

